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arrangement in the illumination beam path could execute a slow beam deflection, and the second mirror arrangement arranged in the illumination beam path could execute a fast beam deflection. A fast beam deflection by the first mirror arrangement in conjunction with a slow beam deflection by the second mirror arrangement can also be advisable. It is further conceivable for each of the two mirror arrangements to execute a slow or a fast beam deflection. A "fast" beam deflection is understood in this context as an oscillation frequency lying in the range from 100 Hz to 10,000 Hz. A "slow" beam deflection lies in the range from 0.1 Hz to 800 Hz.

[0024] In a preferred embodiment, one of the two mirror arrangements has at least two mirrors, which are received in a shared mount and are associated nonrotatably with respect to one another in a predefined angular position. It is also conceivable for each of the two mirror arrangements to have at least two mirrors which are received in a shared mount. It is also possible for one or both mirror arrangements to have exactly one mirror.

[0025] To minimize distortion errors, one of the two mirrors could be arranged as a paddle scanner. In particular, the mirror arranged first in the illumination beam path could be embodied as a paddle scanner. This achieves, approximately, rotation of the beam about a virtual rotation point, which advantageously makes possible the use of small mirror surfaces. In addition, distortion errors that are induced by beam deflection can be greatly minimized.

Brief Description of Drawings

[0026] There are various ways of advantageously embodying and developing the teaching of the present invention. Reference is made, for that purpose, ~~on the one hand to the claims which follow Claim 1, and on the other hand~~ to the explanation below of exemplary embodiments of the invention with reference to the drawings. In conjunction with the explanation of preferred exemplary embodiments of the invention with reference to the drawings, a general explanation is also given of preferred embodiments and developments of the teaching. In the drawings: